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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P-HITEC-001/WO	FOR FURTHER ACTION	See Form PCT/PEA/416
International application No. PCT/EP2004/051623	International filing date (day/month/year) 27.07.2004	Priority date (day/month/year) 29.07.2003
International Patent Classification (IPC) or national classification and IPC H01Q15/16, H01Q15/14		
Applicant HITEC LUXEMBOURG S.A. ET AL.		
<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 6 sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input checked="" type="checkbox"/> sent to the applicant and to the International Bureau) a total of 1 sheets, as follows:</p> <p><input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in Item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p>		
<p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the opinion</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input checked="" type="checkbox"/> Box No. VIII Certain observations on the international application</p>		
Date of submission of the demand 14.01.2005	Date of completion of this report 10.10.2005	
Name and mailing address of the International preliminary examining authority:  European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016	Authorized Officer Van Dooren, G Telephone No. +31 70 340-2952	



**INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY**

International application No.
PCT/EP2004/051623

Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language , which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
 - ☐ publication of the international application (under Rule 12.4)
 - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)
2. With regard to the **elements*** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

Description, Pages

1-8 as originally filed

Claims, Numbers

3-7 as originally filed

1, 2 received on 30.05.2005 with letter of 26.05.2005

Drawings, Sheets

1/2, 2/2 as originally filed

- ☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing
3. ☐ The amendments have resulted in the cancellation of:
- ☐ the description, pages
 - ☐ the claims, Nos.
 - ☐ the drawings, sheets/figs
 - ☐ the sequence listing (*specify*):
 - ☐ any table(s) related to sequence listing (*specify*):
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages
 - ☐ the claims, Nos.
 - ☐ the drawings, sheets/figs
 - ☐ the sequence listing (*specify*):
 - ☐ any table(s) related to sequence listing (*specify*):

* If item 4 applies, some or all of these sheets may be marked "superseded."

**INTERNATIONAL PRELIMINARY REPORT
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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	5,6
	No: Claims	1-4,7
Inventive step (IS)	Yes: Claims	
	No: Claims	1-7
Industrial applicability (IA)	Yes: Claims	1-7
	No: Claims	

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Re Item V

**Reasoned statement with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement**

1. The following documents are referred to in this communication:
D1 : US 5 920 289 A (JONES THADDEUS M) 6 July 1999 (1999-07-06)
D2: GB-A-2 215 523 (GEN ELECTRIC CO PLC) 20 September 1989 (1989-09-20)
D3 : EP 0 741 435 A (LORAL SPACE SYSTEMS INC) 6 November 1996 (1996-11-06)
2. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.
 - 2.1 Document D3 discloses (the references in parenthesis applying to this document): antenna reflector panel comprising a reflector sheet (16) and a reinforcing element (19), said reflector sheet being mounted onto said reinforcing element, wherein said reinforcing element comprises a block of a machinable material having a shaped front surface for receiving said reflector sheet, wherein said reflector sheet is fixed directly to said front surface of said block so as to form a first skin layer of said block of machinable material (cf. col. 3, l.47 - col. 4, l. 7; fig. 2a, 2b).
3. Dependent claims 2-7 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT):
 - the additional features of dependent claims 2,3,4,7 are further disclosed in document D3; and
 - the additional features of dependent claims 5,6 are considered obvious over the disclosure in D3 in view of document D2.
4. It is noted that against the document D1, the subject matter of independent claim 1 is considered not to be inventive.
 - 4.1 Document D1 discloses (cf. col. 3, l. 39 - col. 5, l. 57) an antenna reflector panel from which the subject-matter of claim 1 differs in that said reflector sheet is fixed directly

to said front surface of said block.

The antenna reflector panel according to claim 1 differs from that known from document D1 only in that the layers 18, 22, 24, 26 have been omitted. Apart from the obviously and consequently simpler design of the reflector panel, the only result of the omission of these layers is that the effects related to these layers are no longer present in the antenna reflector panel according to claim 1. Such a simplification does not involve an inventive step (Article 33(3) PCT).

5. Dependent claims 2-7 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step (Article 33(2) and (3) PCT):
- the additional features of dependent claims 2-4,7 are further disclosed in document D1; and
 - the additional features of dependent claims 5,6 are considered obvious over the disclosure in D1 in view of document D2.

Re Item VIII

Certain observations on the international application

1. As to dependent claim 2, the examiner is of the opinion that the current formulation of this claim contains a mix of categories ('...***bonded on***...') in view of the claim it is dependent upon.
2. The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).
3. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1-D3 is not mentioned in the description, nor are these documents identified therein.
4. The description is not in conformity with the claims as required by Rule 5.1(a)(iii) PCT, cf. current formulation of dependent claim 5 and the description.

**INTERNATIONAL PRELIMINARY
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(SEPARATE SHEET)**

International application No.

PCT/EP2004/051623

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P-HITEC-001/WO

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Amended Claims 1 and 2

1. Antenna reflector panel comprising a reflector sheet and a reinforcing element, said reflector sheet being mounted onto said reinforcing element, wherein said reinforcing element comprises a block of a machinable material having a shaped front surface for receiving said reflector sheet, characterized in that said reflector sheet is fixed directly to said front surface of said block so as to form a first skin layer of said block of machinable material.
2. Antenna reflector panel according to claim 1, wherein said reflector sheet is bonded on said block of machinable material.